Available online at www.sciencedirect.com
SCIENCE DIRECT®
Earth-Science Reviews 61 (2003) 361
EARTH-SCIENCE REVIEWS
www.elsevier.com/locate/earscirev

Contents Volume 61, 2003

Research Papers

S-type granitic magmas—petrogenetic issues, models and evidence
J.D. Clemens . . . 1

Trying to understand Alpine sediments—before 1950
R. Trümpy . . . 19

Earthquake ground motion estimation using strong-motion records: a review of equations for the estimation of peak ground acceleration and response spectral ordinates
J. Douglas . . . 43

Interannual, decadal and multidecadal scale climatic variability and geomorphology
H.A. Viles and A.S. Goudie . . . 105

The late Quaternary extinction and future resurrection of birds on Pacific islands
D.W. Steadman and P.S. Martin . . . 133

Pore water anomalies of submarine gas-hydrate zones as tool to assess hydrate abundance and distribution in the subsurface: What have we learned in the past decade?
R. Hesse . . . 149

Earth reflections

How 'hard' are hard-rock deformations?
A.J. van Loon . . . 181

Book review

Petroleum Geology of Libya
W.A. Berggren . . . 189

Research Papers

Holocene coastal carbonates and evaporites of the southern Arabian Gulf and their ancient analogues
A.S. Alsharhan and C.G.St.C. Kendall . . . 191

Palaeontological evidence bearing on global Ordovician–Silurian continental reconstructions
R.A. Fortey and L.R.M. Cocks . . . 245

Ice streams as the arteries of an ice sheet: their mechanics, stability and significance
M.R. Bennett . . . 309

Magnetostratigraphic dating of early humans in China
R. Zhu, Z. An, R. Potts and K.A. Hoffman . . . 341

Contents Volume 61, 2003 . . . 361